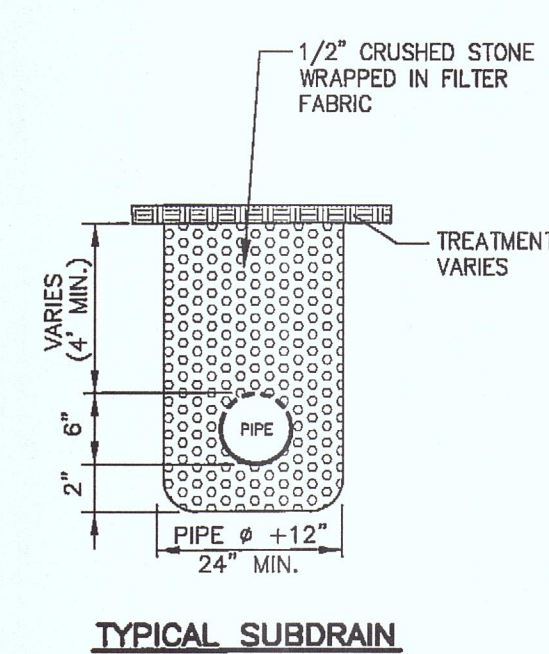


- NOTES:**
1. ALL UNSUITABLE SUBGRADE MATERIAL WITHIN ROADWAY AREA SHALL BE REMOVED.
 2. GRAVEL BASE SHALL BE 12" COMPACTED GRAVEL BASE PLACED IN TWO LIFTS CONSISTING OF:
• 6" OF 3/4" PROCESSED GRAVEL COMPACTED TO MINIMUM 95% ON TOP OF
• 6" GRADED GRAVEL COMPACTED TO MINIMUM 95%
 3. REFER TO GENERAL NOTES SHEET FOR UTILITY SEPARATION REQUIREMENTS.
 4. LOAM & SEED ALL DISTURBED AREAS.
 5. CATCH BASINS TO BE INSTALLED WITH RIM ELEVATION EQUAL TO BINDER COURSE ELEVATION. CATCH BASIN RIM ELEVATIONS TO BE RAISED PRIOR TO TOP COURSE APPLICATION.
 6. SUB-DRAINS ARE REQUIRED WHERE CUTS EXCEED 4', WHERE GROUNDWATER IS LESS THAN 3' BELOW GRADE, OR WHERE SPECIFIED BY ENGINEER. SUB-DRAINS TO DISCHARGE TO THE NEAREST DOWNSTREAM CATCH BASIN.

GRADATION REQUIREMENTS		3/4" PROCESSED GRAVEL	
SIEVE	% PASSING	SIEVE	% PASSING
1/2"	50-65	1"	100
NO. 4	40-75	3/8"	50-85
NO. 50	8-28	4"	35-65
NO. 200	0-8	10	25-50
		40	15-30
		200	8-15



GRADATION NOTES:

GRAVEL BASE
GRADATION REQUIREMENTS FOR GRAVEL USED AS BASE MATERIAL SHALL CONFORM TO THE FOLLOWING:
M1.03.0 TYPE C* - 2 INCHES LARGEST DIMENSION (SEE GRADATION REQUIREMENTS BELOW)

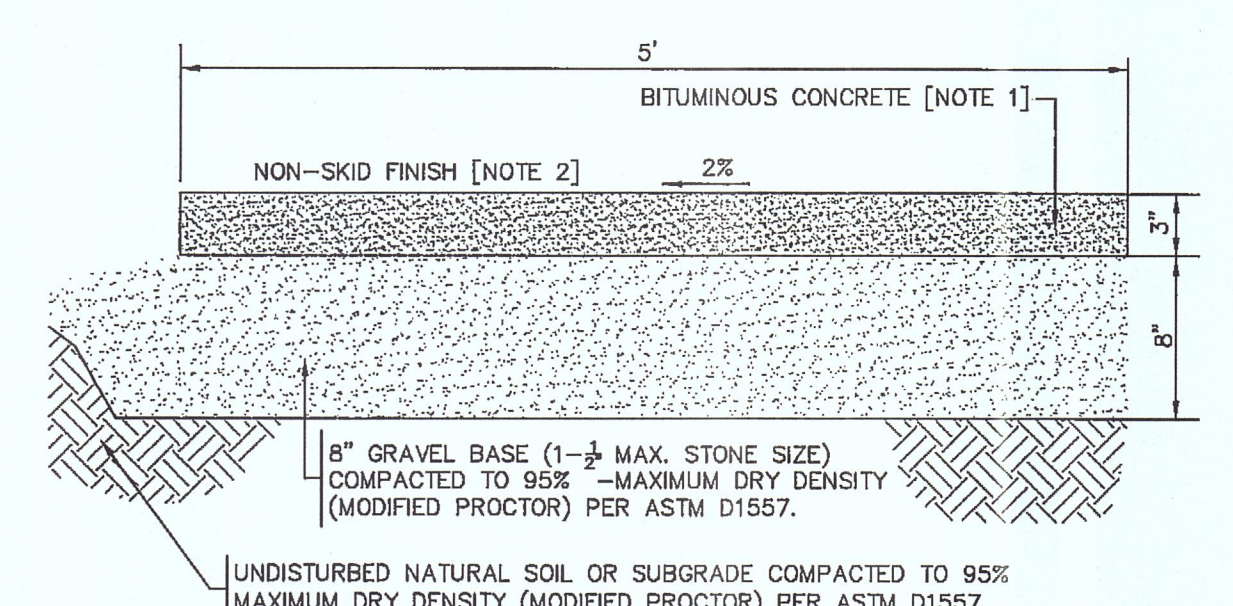
GRAVEL SUBBASE
GRADATION REQUIREMENTS FOR GRAVEL USED AS SUBBASE MATERIAL TO A DEPTH OF FOUR FEET BELOW FINISHED GRADE SHALL CONFORM TO THE FOLLOWING:
M1.03.0 TYPE B* - 3 INCHES LARGEST DIMENSION (SEE GRADATION REQUIREMENTS BELOW)

GRADATION REQUIREMENTS FOR GRAVEL USED AS SUBBASE MATERIAL BELOW FOUR FEET FROM FINISHED GRADE SHALL CONFORM TO THE FOLLOWING:
M1.03.0 TYPE A* - 6 INCHES LARGEST DIMENSION (SEE GRADATION REQUIREMENTS BELOW)

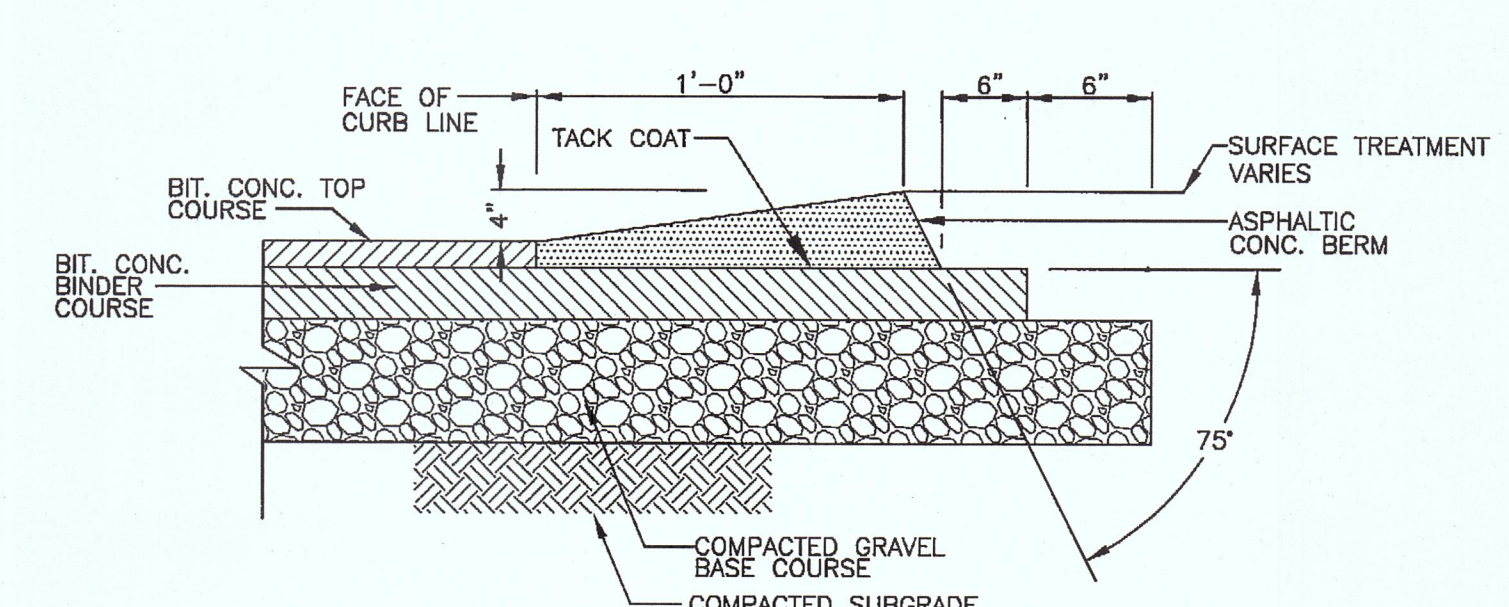
* "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES" THE COMMONWEALTH OF MASSACHUSETTS (1988 EDITION)

NOTES:

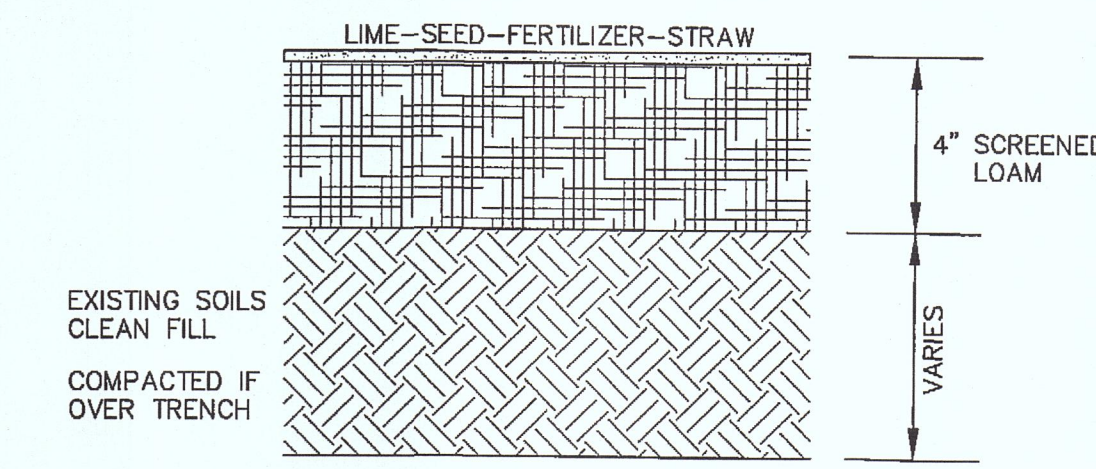
[1] MHD M3.11.03 CLASS I, TYPE 1-1 BITUMINOUS CONCRETE (1-1/2" WEARING COURSE ON 1-1/2" BINDER COURSE), 1/2" MAXIMUM AGGREGATE OR PARTICLE SIZE, COMPACT TO TEST AVERAGE OF 95% NO TEST LOWER THAN 93%.



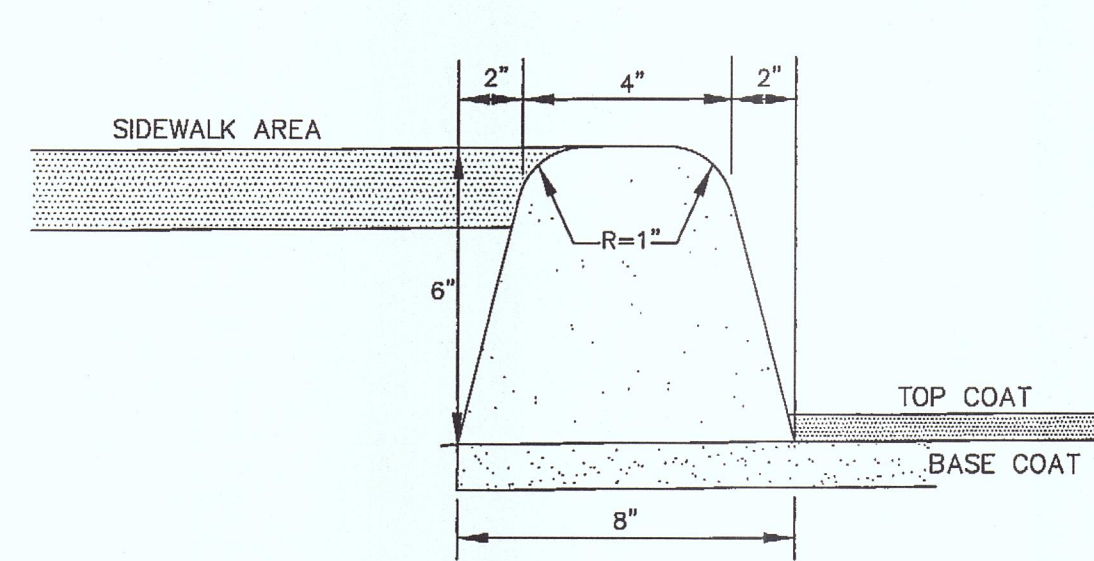
2 BITUMINOUS CONCRETE SIDEWALK
SCALE: N.T.S.



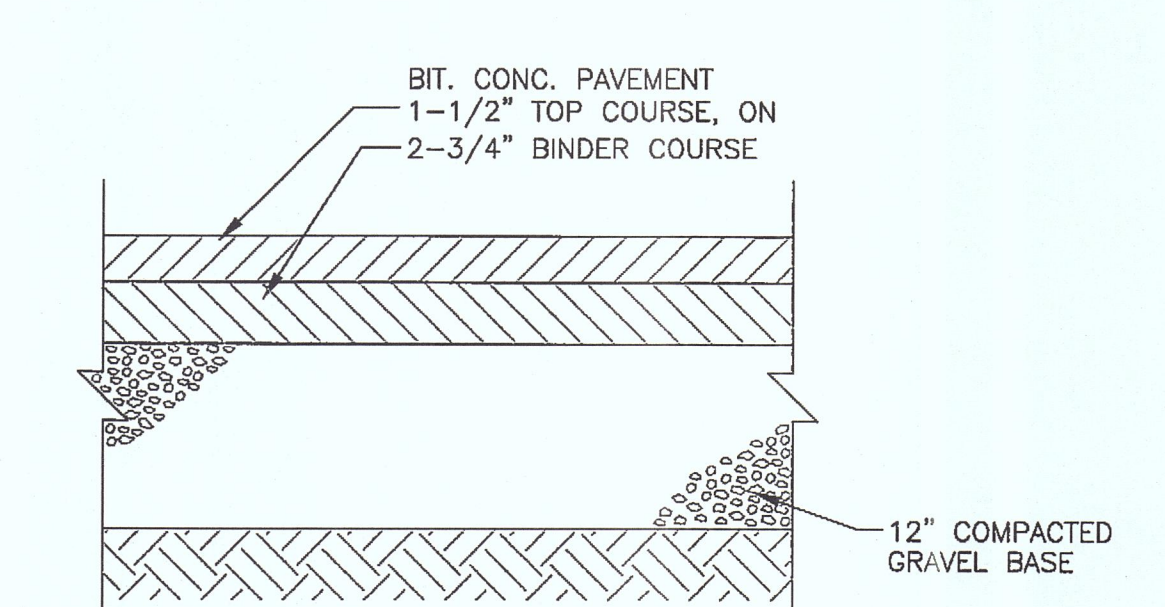
3 MODIFIED ASPHALTIC CAPE COD BERM (CCB)
SCALE: N.T.S.



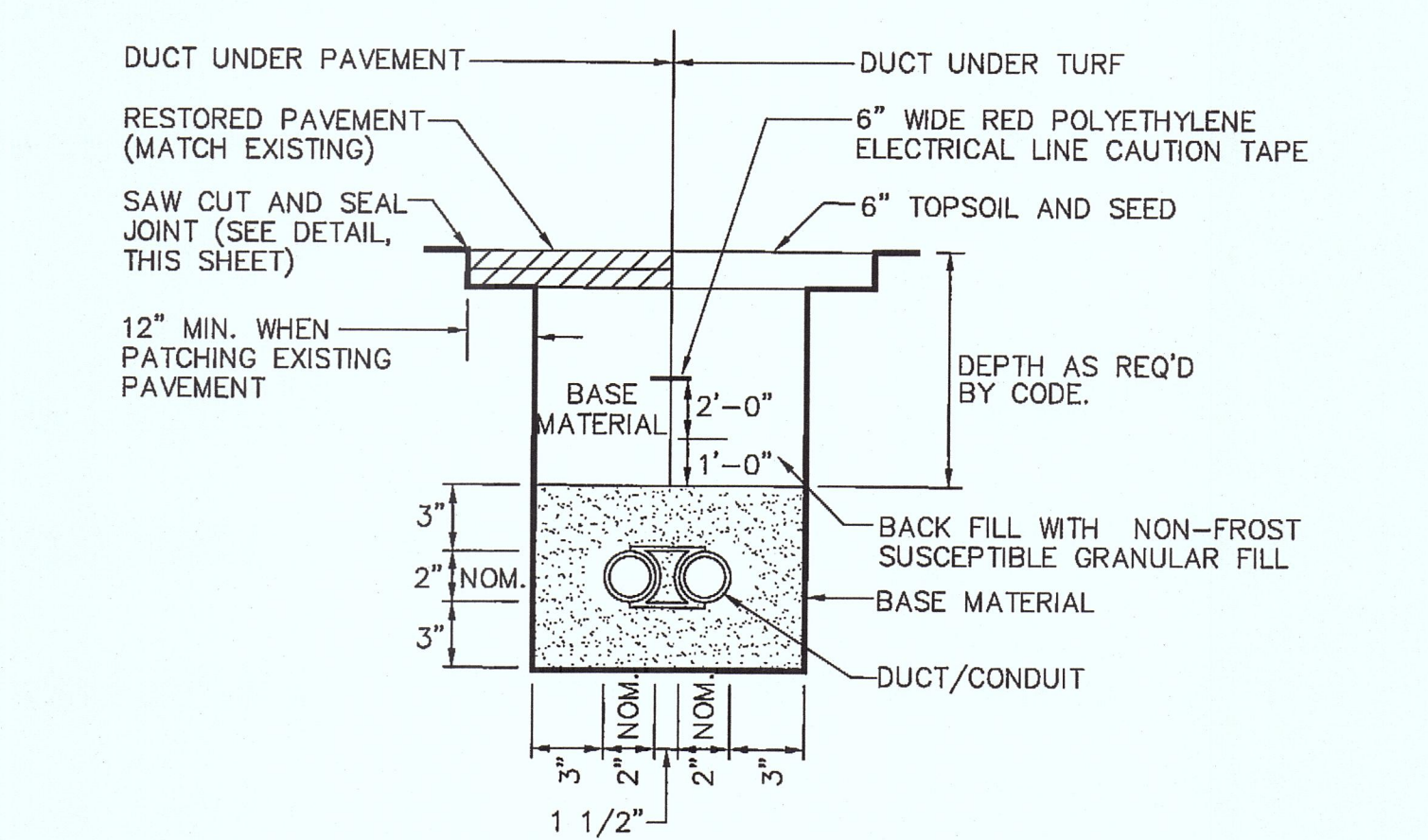
4 LOAM & SEED DETAIL
SCALE: N.T.S.



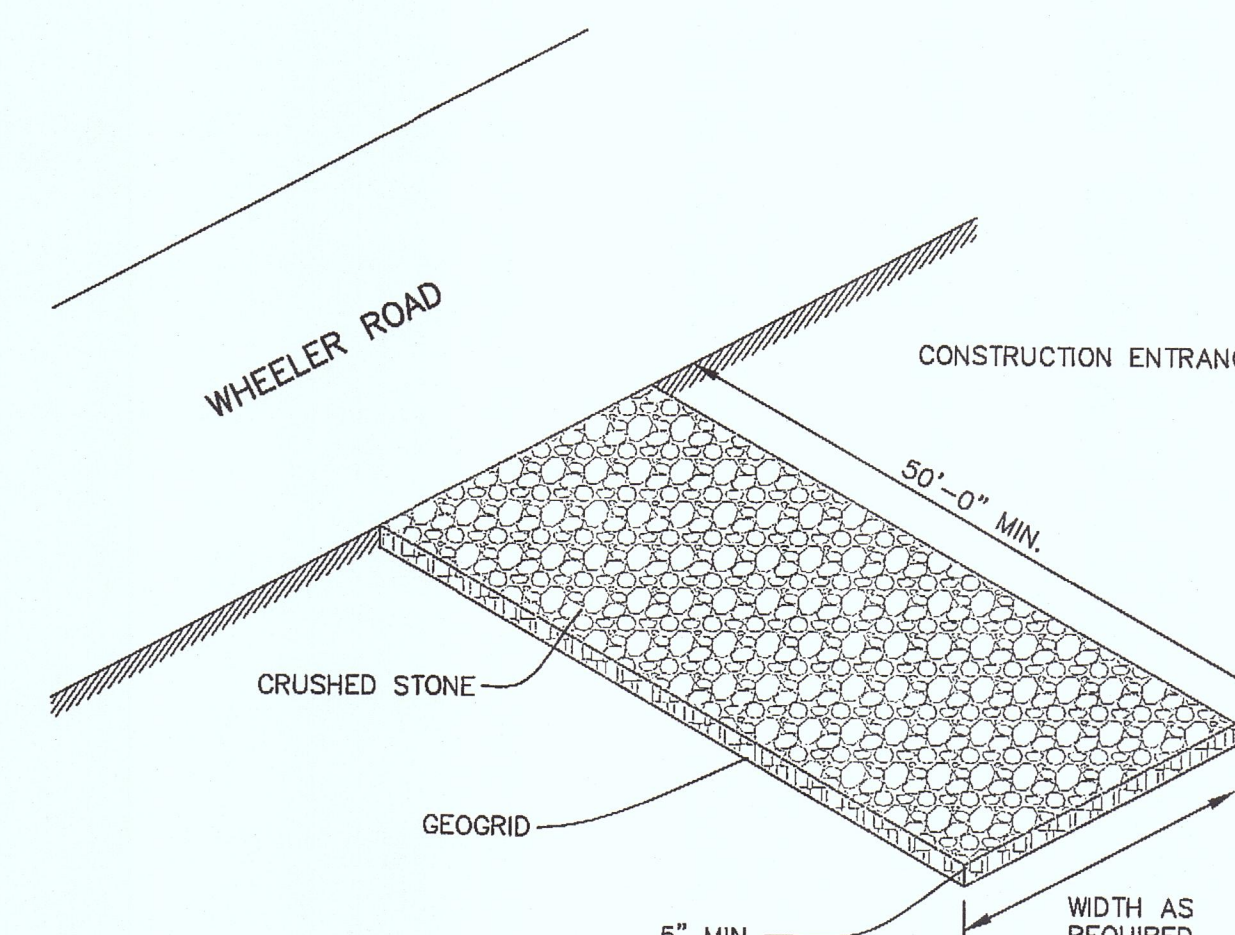
5 BITUMINOUS CONCRETE CURB (BCC)
SCALE: N.T.S.



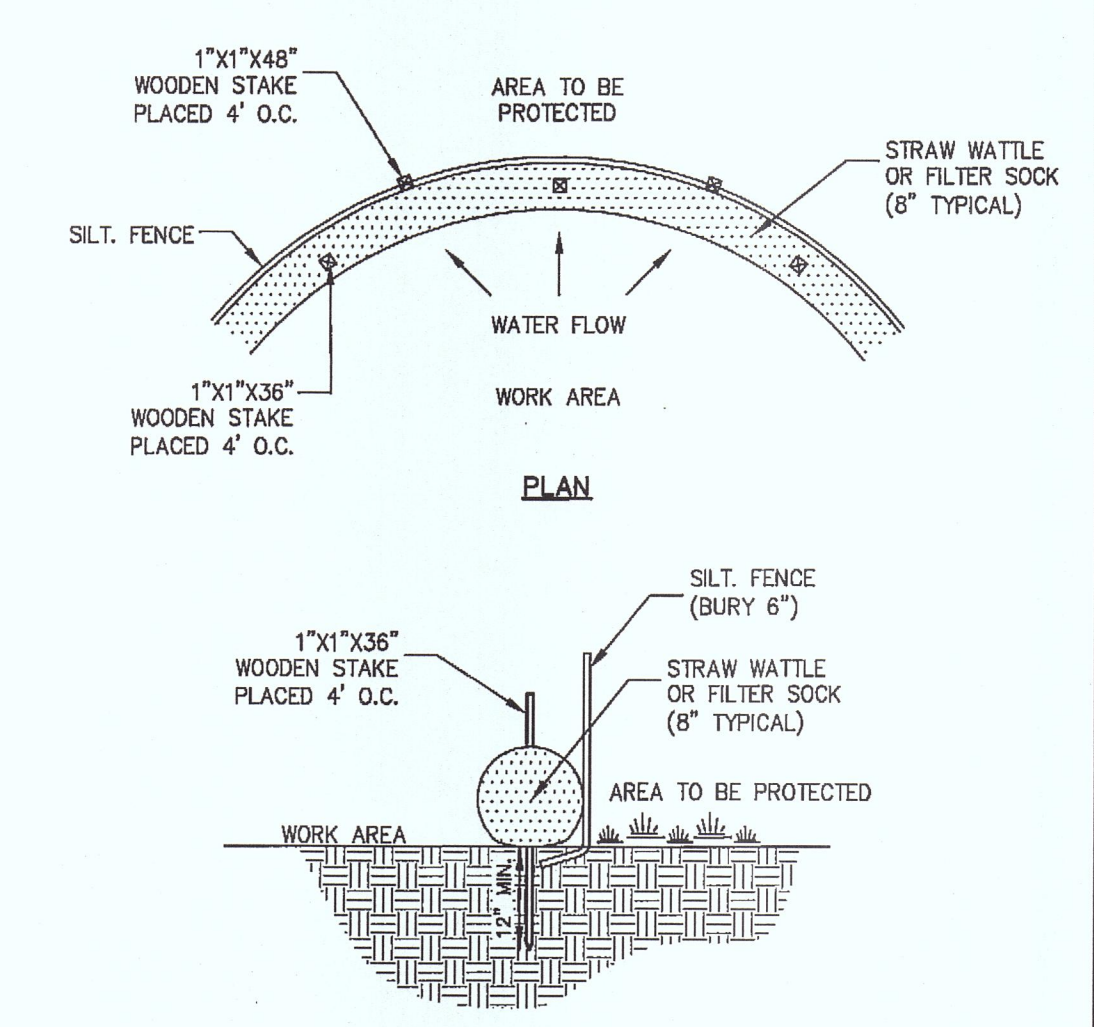
6 BITUMINOUS CONCRETE PAVEMENT DETAIL
SCALE: N.T.S.



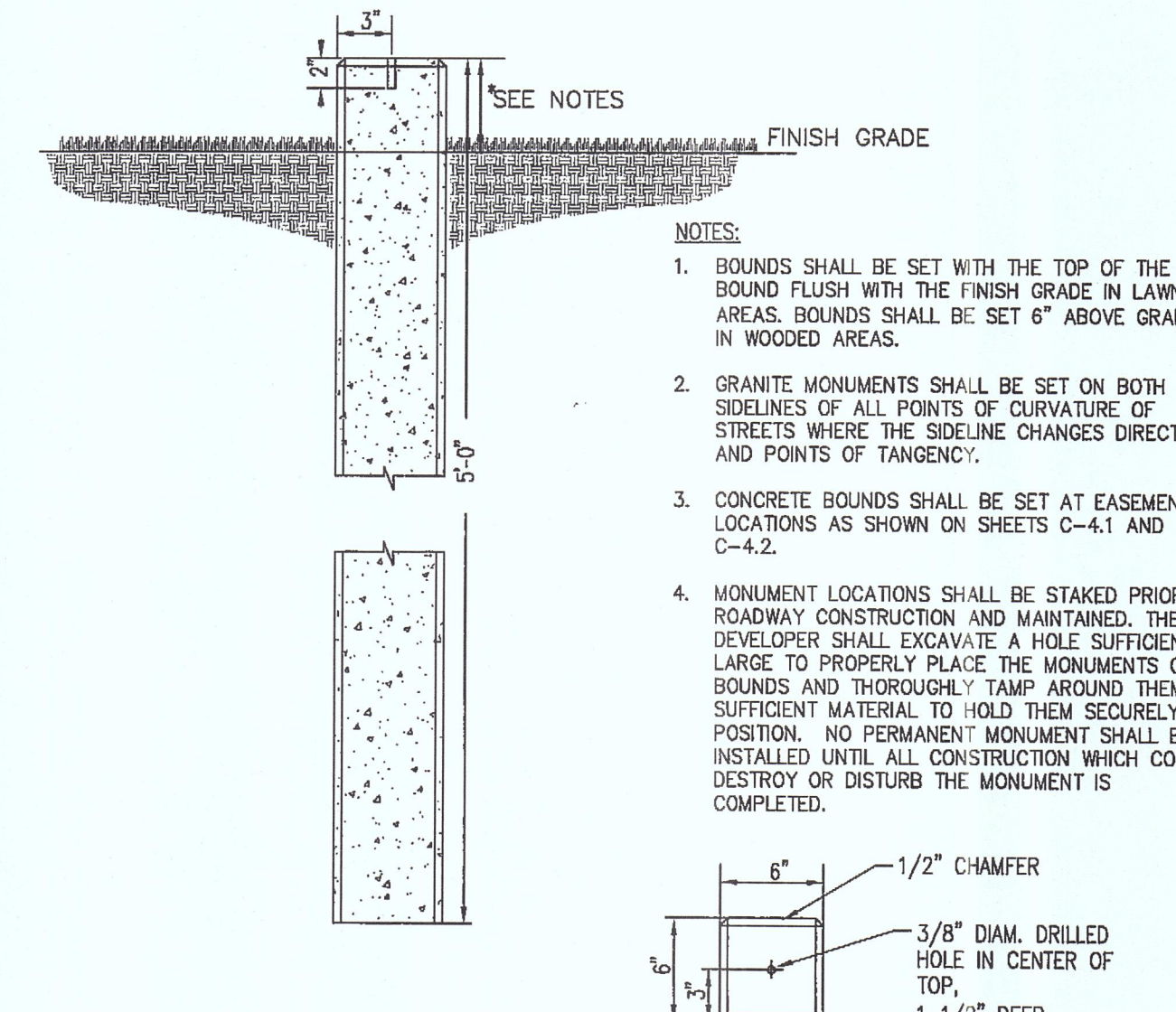
7 UNENCASED DUCT/CONDUIT DETAIL
SCALE: N.T.S.



8 CONSTRUCTION ENTRANCE
SCALE: N.T.S.



9 EROSION CONTROL BARRIER (ECB)
SCALE: N.T.S.



10 GRANITE MONUMENT DETAIL
SCALE: N.T.S.

ASE
Andrews Survey & Engineering, Inc.
Land Surveying - Civil Engineering - Site Planning
P.O. Box 312, 104 Mendon Street
Uxbridge, Massachusetts 01569
P: 508-278-3897 F: 508-278-2289
500 East Washington Street
North Attleboro, Massachusetts 02760
P: 508-316-0452 F: 508-316-0963

APPROVAL BY THE TOWN OF GRAFTON ZONING BOARD OF APPEALS ACTING AS PLANNING BOARD IN ITS CAPACITY AS THE COMPREHENSIVE PERMIT GRANTING AUTHORITY UNDER MGL 40B.

[Signature] 12-28-19
CHAIR DATE
[Signature]
[Signature]
[Signature]
THIS CERTIFIES THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE GRAFTON ZONING BOARD OF APPEALS HAS BEEN RECEIVED AND RECORDED ON OCTOBER 27, 2017 AT 8:54AM AND NO APPEAL WAS RECEIVED DURING THE 20 DAYS NEXT AFTER SUCH RECEIPT OF SAID NOTICE.
[Signature] 1/18/19
TOWN CLERK DATE

PROJECT: **ELMROCK ESTATES**
A COMPREHENSIVE PERMIT PLAN
21 WHEELER ROAD &
106 BRIGHAM HILL ROAD
GRAFTON, MA 01536

APPLICANT: **FIELDSTONE REALTY, LLC**
100 BRIGHAM HILL ROAD
GRAFTON, MA 01536

REVISIONS		
NO.	DATE	DESCRIPTION
1	2/28/17	REDUCED TO 32 LOTS, FULL DESIGN PLANS
2	4/10/17	PER GRAVES 3/15/17 REVIEW COMMENTS
3	7/24/17	PROPOSED 31 UNIT DESIGN
4	8/22/17	PER ZBA & REVIEW COMMENTS
5	8/20/18	PER COMPREHENSIVE PERMIT CONDITIONS
6	9/27/18	PER CONCOM COMMENTS
7	12/10/18	PER COMPREHENSIVE PERMIT CONDITIONS
CAD FILE 2015-332_40B_31 units_R1-REV-BASINS.dwg		
DRAWN BY TRB, SJO		
CHECKED BY RMM, BJA		
DATE AUGUST 30, 2016		
PROJECT NO. 2015-332 (REF. 2011-273)		

PLAN BOOK *943* PLAN *4*
SHEET *13 OF 17*

SHEET TITLE
CONSTRUCTION DETAILS
SHEET 1 OF 5

DRAWING NO.
C-7.1
PLAN NO. L-4958

[Seal]
RICHARD M. MANVILLE
CIVIL
No. 28323
12/16/18

F:\ACAD\2011 PROJECTS\2011-273\DWG\2015-332_40B_31 UNITS_R1-REV-BASINS.DWG 12-11-18 1:31:03 PM - LAYOUT C-7.1